



01



A											
LDW280-11628											
LM LTM280-53851 LM-3(33) 1 LDW280-11628-19											
LM	LTM280-26884	PA-1 (47)	I	LM	LTM280-26884	PA-1 (47)	I	LM	LTM280-26884	PA-1 (47)	I
MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	READ PER MODULE OR END ITEM	MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	READ PER MODULE OR END ITEM	MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	READ PER MODULE OR END ITEM
PART NO. LDW280-11628-11		GAEC SCH NO.		PART NO. LDW280-11628-1		GAEC SCH NO.		PART NO. LDW280-11628-17		GAEC SCH NO.	30-
SH REV STATUS FOR DESCRIPTION OF REV SEE SUBO SH											
SHEET	1.00	1.0	1	2.00	14.00	111	UNLESS OTHERWISE SPECIFIED	CONTRACT NO. NAS 9-1100	LINE ITEM #	DOCUMENTATION TYPE	II
REV	A	A	A	A	A	A	DIMENSIONS ARE IN INCHES.	DRAWN BY WILSON/DOX 11-11-66	RELIABILITY	GRUMMAN AIRCRAFT ENGRG CORP	
SHEET							TOLERANCE UNLESS SPECIFIED	LAYOUT BY HERREL	TIME END	BETHPAGE, L.I., NEW YORK	
REV							FRACTIONS - DECIMALS - ANGLES	CHECKED BY		SHIELD ASSY	
SHEET							± $\frac{1}{16}$ ± $\frac{1}{16}$ ± $\frac{1}{16}$	OR LEAD		ASCENT STAGE - MID SECTION	
REV							CLASS II ENGR CHANGE	DES INT		AFT BULKHEAD - RIGHT HAND TANK	
ORIG DWG AUTH											
DETAIL SPEC REQUIREMENT											
LAST SECT LTR USED B-B GRUMMAN REL INFO A CLASS II ENGR CHANGE											
PRIM NO. (101) E4F CLASS I ENGR CHANGE											
LAST DASH NO USED - 7 215 WEIGHTS											
EKG 77.1 12-68											
SIZE CODE IDENT NO. B 26512 LDW280-11628 A											
SCALE NONE SHEET 1.00 OF 6											
COR 11/15											

-1100

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PT "7A"
 -X 200.00 (REF)
 -Y 73.412 (REF)
 -Z 32.25 (REF)

PT "GA"
 -X 200.00 (REF)
 -Y 82.51 (REF)
 -Z 10.75 (REF)

D



$\frac{1}{4}$ TYP
IML BUP CL 20°

IML BUP CL 10°

C

(A3) (A4) (21) BEND R $\frac{3}{2}$

FS ONLY

IML BUP CL 37°

IML BUP

IML BUP 33 $\frac{1}{4}$

FS ONLY

B

TEMPERATURE CONTROL SURFACE EXTERIOR (NS)

097-102.740 DRILL
(5 HOLES)

(13) BEND R.010 $\pm .330$
 $\pm .000$

.127-.133 (.30 DRILL)
TYP 6 PLACES

.004 (REF)

DIMPLE UP
(5 PLACES
SEE SECT B-B (ZONE BA))

TEMPERATURE CONTROL SURFACE
EXTERIOR

.127-.133 (.30 DRILL)
TYP 3 PLACES

PT "14A"
 -X 224.57 (REF)
 -Y 75.11 (REF)
 -Z 32.25 (REF)

NAS D-1100

SECTION B-B
(SCALE 2X1)

CODE IDENT NO. 26512
LDW280-11635
SA
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PT "6A"
+X 200.00 (REF)
-Y 82.51 (REF)
-Z 10.75 (REF)

PT "14A"
+X 224.57 (REF)
-Y 79.11 (REF)
-Z 32.25 (REF)

IML BUP CL 37"

FS ONLY

(13) BEND R.010 L.030
-0.00

224 (REF)

IML BDN 42"

IML BUP

IML BUP CL 37"

BUN 33"

PT "13A"
+X 231.45 (REF)
-Y 79.11 (REF)
-Z 32.25 (REF)

TEMPERATURE CONTROL EXTERIOR(NS)

J27-J53 (*30 DRILL)
TYP 7 PLACES

PT "3A"
+X 215.95 (REF)
-Y 96.74 (REF)
-Z 10.75 (REF)

MAS 8-1100

PT "4A"
+X 240.05
-Y 88.74 (REF)
-Z 10.75 (REF)

CODE IDENT NO 26512
LDW280-11635
34
3

CODE IDENT NO 26512
LDW280-11635
34
3

6

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4

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TEMPERATURE CONTROL EXTERIOR(N/S)

~~FS ONLY~~

A₆ A₄ -19

.127-.133 (.30 DRILL
TYP 7 PLACES —

PT '4A'
+X 240.05 (REF)
-78.74 (REF)
-210.73 (REF)

90
5A
215.95 (REF)
98.74 (REF)
10.75 (REF)

SYMBOL LEGEND

 - SYMBOLS ARE FOR
LOCATION AND
QUANTITY ONLY

DRILL

.097-.1021" (40 DRILL)
(1000155)

3

NOTES:

1 NO TOOLING HOLES
PERMITTED IN PARTS.

2 HOT FORM FLANGED HOLES
PER SPEC LSP-14-5300 THE
FORMING TEMP. SHALL BE 175°
65°F & THE DWELL TIME SHALL
BE 15 SECONDS

3 MATERIAL, FINISHES, HANDLING
AND PERMISSIBLE DEVIATIONS
PER LPC-280-16

A. GENERAL AIRPORT DRUG CO., GLENDALE, L. L. CO. INC.	
J	26512 DW260-11635 A
BULL. 107-20 - \$1.00	

FOR PHOTO REPRODUCTION

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PT. D
+X 31.200 (REF)
-Y 31.120 (REF)
+Z 31.500 (REF)

PT. D'
+X 312.500 (REF)
-Y 310.200 (REF)
+Z 29.240 (REF)

IML BDN 30 $\frac{1}{2}$

IML BDN

IML BDN 39 $\frac{1}{2}$

-15-

-13-

IML BDN

DEE50 (FS ONLY)

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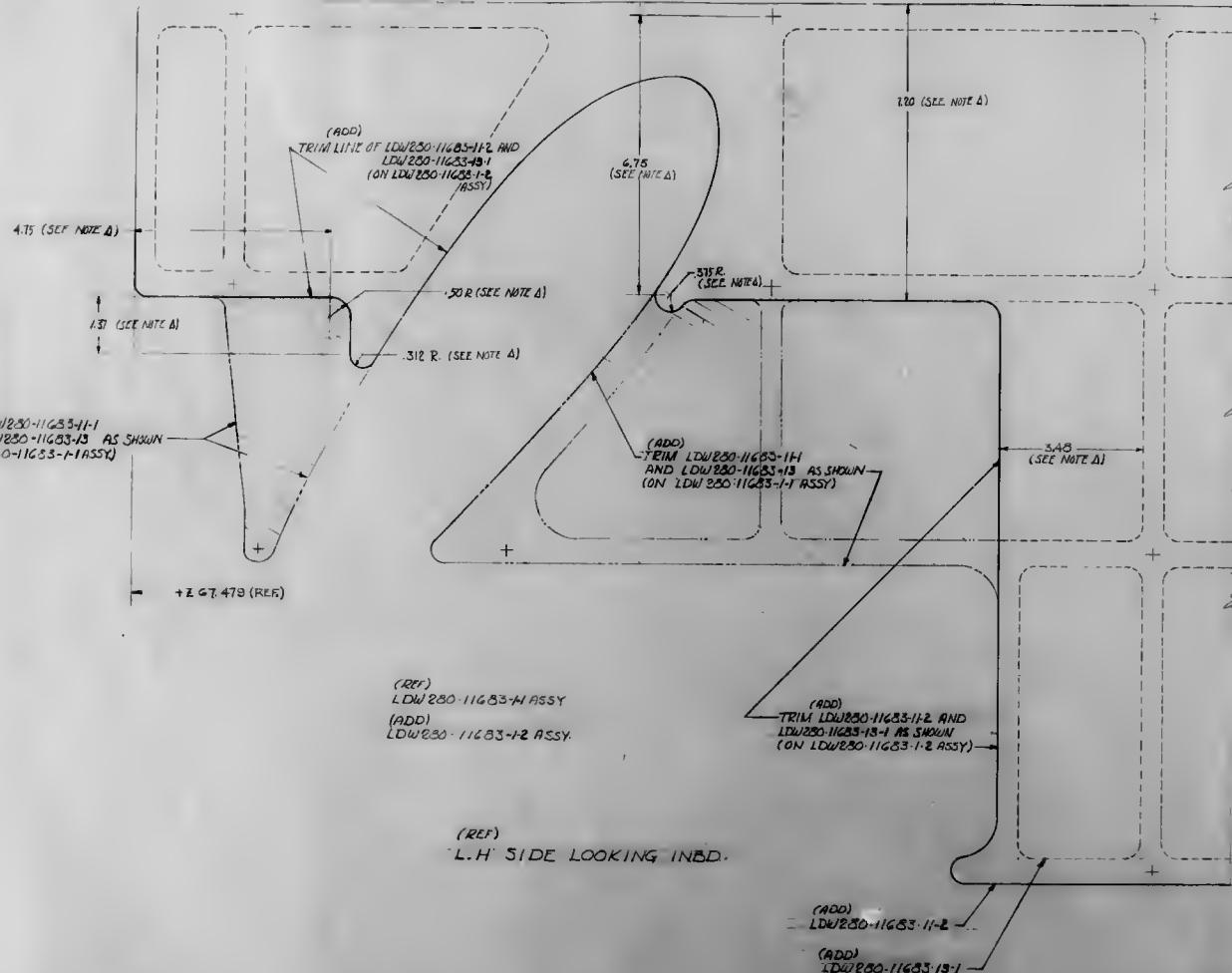
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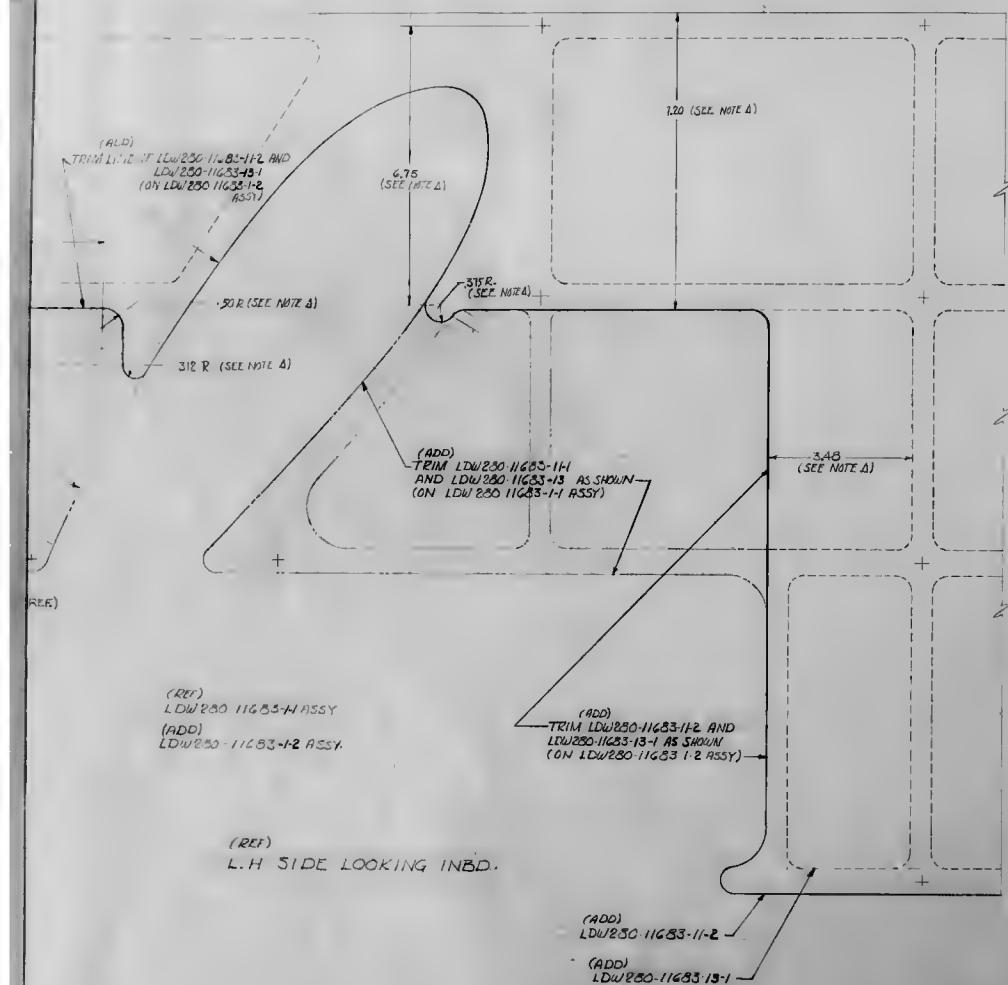
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NOTES:

A-DIM. FOR DETAILERS USE ONLY
DO NOT INCORP. ON DUG
LDW280-11683-1/2 ASSY IS IDENTICAL TO
LDW280-11683-1H EXCEPT FOR THE TRIM
E THE FOLLOWING:
LDW280-11683-1H-1 REPLACES LDW280-11683-1H
LDW280-11683-1H-2 REPLACES LDW280-11683-1H

ITEM SPEC. REF.		CLASS & SERIES NO.		CLASS & CHARGE CODE	
ADDITION OF DISCON JETT FOR INCREASED PLSS RECHARGE PRESSURE					
LINE	PRODUCTION DATE NO.	MANUFACTURER NO.	SHIP. DATE/UNIT NO.	SHIPPING DATE	RECEIVED BY
LVA	LM10 (0)	THRD	LM198 (4)	00000000000000000000000000000000	C A15
21070	P Kaiser	VCI	00000000000000000000000000000000		



NOTES:

**Δ - DIM. FOR DETAILERS USE ONLY
DO NOT INCORP ON DWG**

**LDU880-11683-1-P ASSY IS IDENTICAL TO
LDU880-11683-1-H EXCEPT FOR THE TRIM
E THE FOLLOWING:**

**LDU880-11653-15-1 REPLACES LDU880-11683-13
LDU880-11683-11-2 REPLACES LDU880-11683-11**

LDW280-11697									
LM	LDW280-53178	LM-15(45)	1	LM	LDW280-53178	QUAL TEST	1	LM	LDW280-53178
		LM-14(44)	1			LM-7(37)	1		LM-12(22)
		LM-3(43)	1			LM-6(36)	1		LM-9(33)
		LM-12(43)	1			LM-5(35)	1		LM-10(33)
		LM-11(41)	1			LM-4(34)	1		LM-11(21)
		LM-10(43)	1						LM-12(21)
		LM-9(33)	1						LM-13(21)
LM	LDW280-53178	LM-8(36)	1	LM	LDW280-53178	LM-3(33)	1	LM	LDW280-53178
MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	READ PER	MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	READ PER	MODEL OR END ITEM	NEXT ASSY
PART NO LDW280-11697-35		GAEC SCH NO	MODULE OR END ITEM	PART NO LDW280-11697-32		GAEC SCH NO	MODULE OR END ITEM	PART NO LDW280-11697-11-12-19-2A	

SH REV STATUS: FOR DESCRIPTION OF REV SEE SUBG SH				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				CONTRACT NO NAS 9-100		LINE ITEM #1		DOCUMENTATION TYPE II	
SHEET	100	110	200	300	REV	A	A	A	A	DRAWN BY N. N. N. N. N. N. N.	DESIGNED BY N. N. N. N. N. N. N.	GRUMMAN AIRCRAFT ENGRG CORP	
SHEET					REV					LAYOUT BY SODMAN IHT-3 THERMO	INSTRUMENTS BY N. N. N. N. N. N.	BETHPAGE, L. L. NEW YORK	
SHEET					REV					CHECKED BY N. N. N. N. N. N.		CLIP	
SHEET					REV					SPRINGER BY N. N. N. N. N. N.		ASCENT STAGE - CABIN	
SHEET					REV					DET. BY N. N. N. N. N. N.		THERMO SHIELD - LOWER	
LAST SECT LTR USED	D	GRUMMAN REFINED A			DETAIL SPEC REQUIREMENT	REV DATE	6/20/74	PROJ ENGR	RELATIONSHIP	SIZE	CODE IDENT NO.		
LAST DASH NO USED	-38	P/N NO.	1001		CLASS 1 ENG CHG	STRUCTURE	1001	REL GROUP	2.3 m	B	26512	LDW28011697 A	
	215				CLASS 2 ENG CHG	STRUCTURE	1001			SCALE	None	SHEET 100 OF 5	
WEIGHTS													

EN 77 112-68

C-10-68



REVISIONS FOR CONTINUATION OF REVISIONS SEE SHEET _____

01

NAS 9-1100

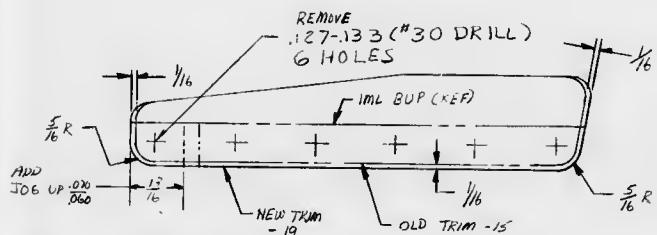
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MS 9-100

GRUMMAN AIRCRAFT ENGINEERING CORP.
CODE IDENT NO. 36512
ENGINEERING ORDER EMF-A

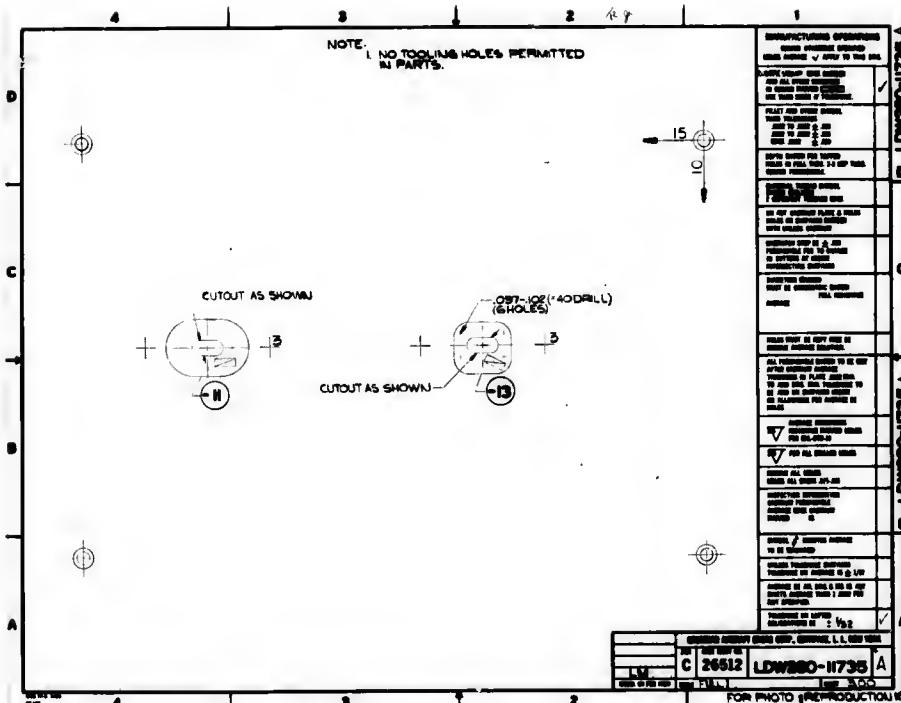
REF. LDW280-11721 ED. A1
CONT. INFO NO. LM-2-3233

IN F/D, M1B & B/M DELETE -15, ADD -19 IDENTICAL
TO -15 EXCEPT AS SHOWN.

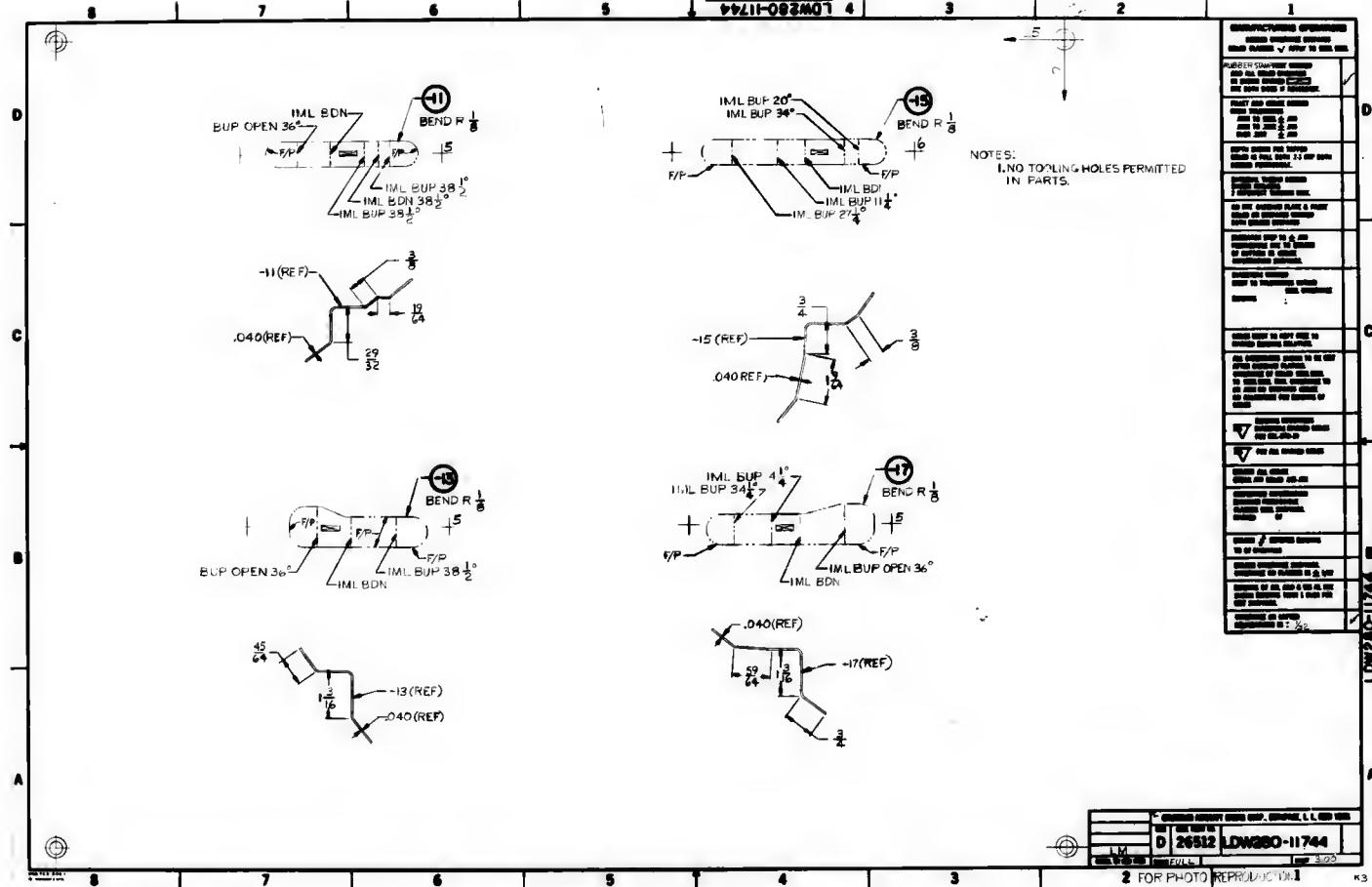


ITEM NO. OR	CL. OR SPEC. OR	CL. OR SPEC. OR	ITEM NO. OR	CL. OR SPEC. OR	ITEM NO. OR	CL. OR SPEC. OR
REASON FOR CHG			IN 1/16, B/M & M1B			
PART TOO SMALL TO PICK UP EXISTING RIVET PATTERN			DELETED -15, ADDED -19			
ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM
ITEM NO.	ACTIVITY NO.	ITEM NO.	ACTIVITY NO.	ITEM NO.	ACTIVITY NO.	ITEM NO.
L10	LM-4(34)	L10	REMOVED	-15	REMOVED	-15
L10	SHALL	L10	REMOVED	-19	REMOVED	-19
L10	LM-15(45)	L10	REMOVED	-19	REMOVED	-19
A/S ~ M1B ~ EVA ANTENNA SUPPORT						
LDW280-11721 A1						
ISSUED BY LIAISON / T. DEGAUW 1209 11/11/72 SECTION V.D.I GROUP NO. 335 PL. 25						





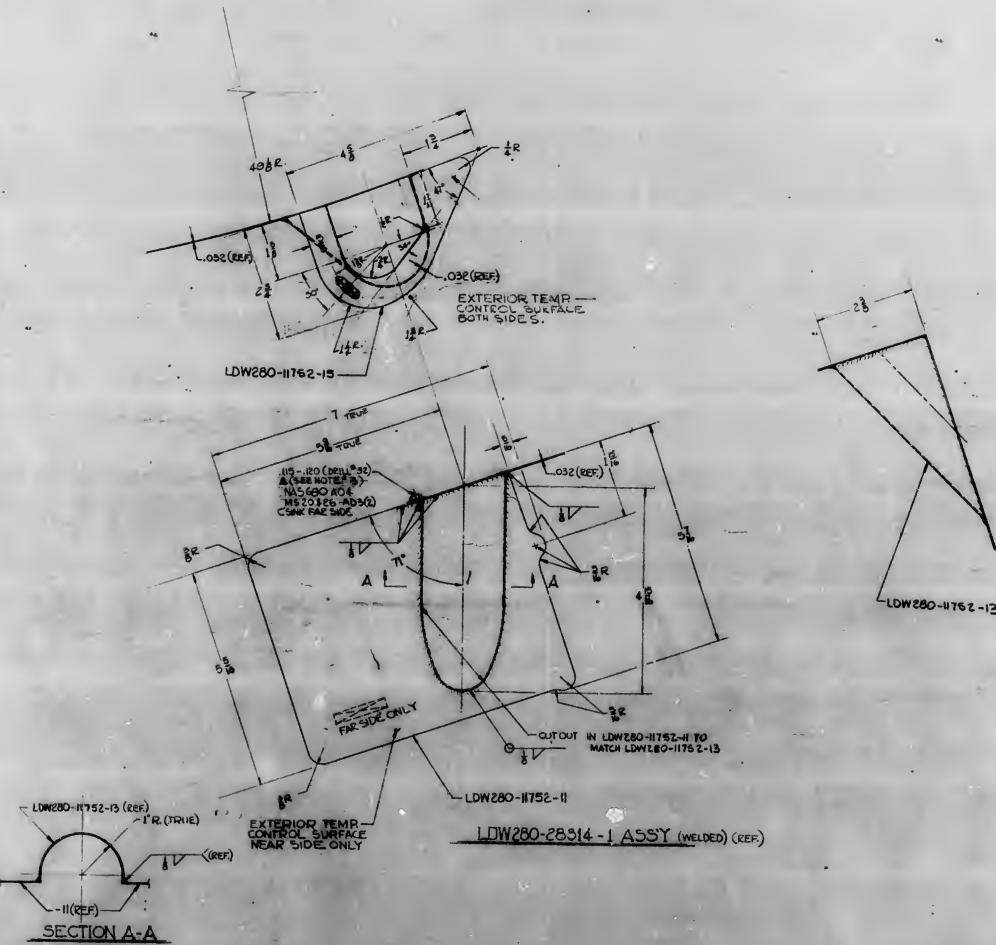
ANS 9-100



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NOTES:

1. NO TOOLING HOLES PERMITTED IN PART.
2. FINISH FOR -I ASSY : CLEAR SULFURIC ACID ANODIZE IN ACCORDANCE WITH MIL-A-8622 TYPE II. BURNISH WITH SURFACE DESIGNATED EXTERIOR SIDE. SURFACE COATED WITH SILICONE VINYL COATING #795 FROM E. G. CARROL PRODUCTS INC., PARKIN, N.Y. REMOVE CLEAR SULFURIC ACID ANODIZE FINISH FROM INTERIOR SURFACE AND REFINISH WITH #795.
3. FOIL HOLES MAINTAIN SEC LDW 280-2B-314-1 ASSY AND PART.
4. ALL INFORMATION NOT REQUIRE THE MANUFACTURE OF LDW 280-2B-314-1 ASSY FOR PURPOSE ONLY.



01 / 02

NAS 9-1100

NOTES:

1. NO TOOLING HOLEs PERMITTED IN PARTS.
2. FINISH FOR 1-TASSY : CLEAN, SULFURIC ACID ANODIZE, IN ACCORDANCE WITH MIL-A-8625 TYP. II, ROLLING WATCH SEAL. THE SURFACE DESIGNATED EXTERIOR SHALL BE PROTECTED WITH STRIPAWABLE VINYL CONTAINING 75% PURCHASED FROM CARDO PRODUCTS INC., FARMINGDALE, N.Y. REMOVE CLEAN, SULFURIC ACID ANODIZE FINISH FROM INTERIOR SURFACE AND REFINISH WITH #7 LSP14-3010
3. FOIL HOLES MANUFACTURED AS SEC LDW320-11443 FOR CORRESPONDING HOLE PATTERN
4. ALL INFORMATION NOT REQUIRED FOR THE MANUFACTURE OF LDW320-11752-113465, LDW320-2B 314-1TASSY FOR REFERENCE PURPOSE ONLY.

The diagram illustrates a cross-section of an aircraft wing. Key dimensions include chord lengths of 40 ft, 4 1/2 ft, 1 1/2 ft, and 1/2 ft. The leading edge is labeled .052 (REF). The trailing edge is labeled .032 (REF). Ailerons are shown at the 1/2 chord position with a deflection angle of 22°. The root of the wing has a thickness of 1 1/2 ft. A note specifies 'EXTERIOR TEMP - CONTROL SURFACE BOTH SIDES.' Reference number LDW280-11762-15 is present at the bottom.

MANUFACTURING OPERATIONS
 UNLESS OTHERWISE SPECIFIED
 NOTES CHECKED ✓ APPLY TO THIS DRAWING

ALL OTHER MANUFACTURING IN REGION MARKED □

FILLET AND INNER CORNER
RADIUS TOLERANCES
 1/8 IN. $\pm .010$ IN.
 1/16 IN. $\pm .005$ IN.
 1/32 IN. $\pm .002$ IN.

OPENING TOLERANCE
WELDED HOLES IS FIVE THICK. $\pm .030$ IMP. THICK.
 BEYOND PERMISSIBLES

EXTERNAL THRESHOLD LENGTH
SHOULD NOT EXCEED
 2 IMPERFECT THREADS MAX.

DO NOT CADMIUM PLATE & PAINT
HOLE SURFACES ARE TO BE PROTECTED
 WITH DOUBLE AEROSOL.

MISALIGN STEP OF $\pm .005$
INCHES IS ALLOWED TO CHANGE
OF CUTTERS AT INTERSECTING
INTERSECTING SURFACES

DIAMETERS MARKED
MUST BE CONCENTRIC WITHIN
 READING

INDICATOR

HOLES MUST BE REPT FREE OF
CHROME PLATING SOLUTION.

ALL DIMENSIONS ARE TO BE MET
EXCEPT WHERE SPECIFIED
THICKNESS OF PLATE (.003) MIN
**TO .005) MAX. PLATE THICKNESS
IS NOT TO EXCEED (.007)
NO ALLOWANCE FOR PLATING OR
INSPECTION IS TO BE MADE.**

SURFACE ROUGHNESS
INCLUDES ROUNDED HOLES
PER MIL-STD-160

✓ **FOR ALL DRILLED HOLES**

REMOVE ALL BURRS
INSIDE AND OUTSIDE
ALL EDGES 305-315

DETERMINATION OF POSITION
MINIMUM PERMITTED
SWING
AVERAGE SIDE DISTANCE
KNOWN AS

SURFACE **□** **DENOTES SURFACE**
TO BE MACHINED

UNLESS OTHERWISE SPECIFIED
TOLERANCES ON FLANGES ARE
 $.1\% \text{ L/D}$

LENGTH OF AN "A" IS .005 AL AL
TRIANGLES SHORTER THAN 1 INCH ARE
NOT TO EXCEED .001 INCH

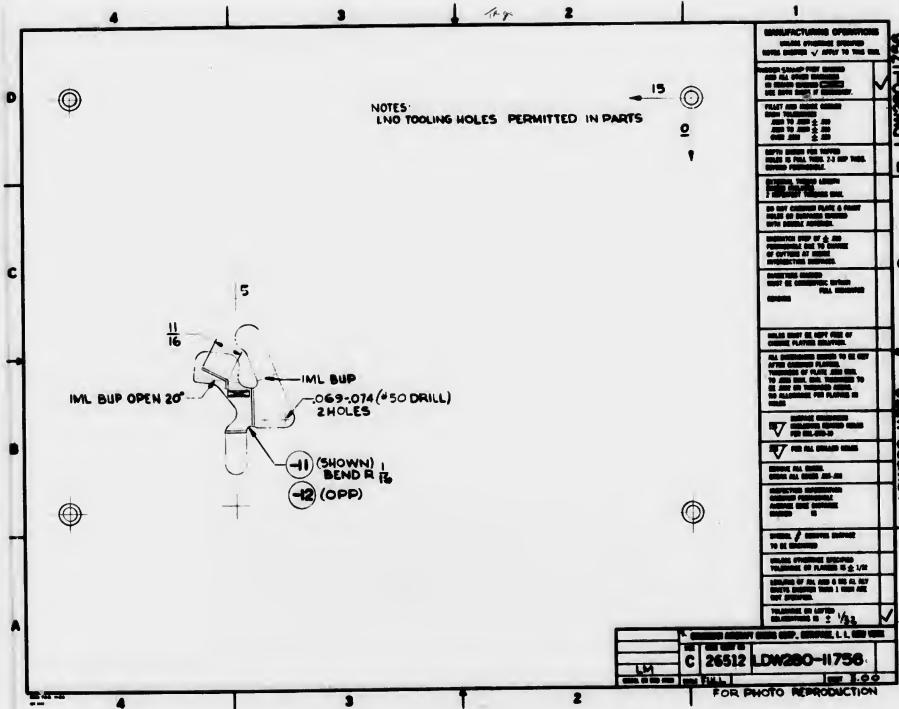
TOLERANCE ON LOFTED
DETERMINATIONS IS

02 / 02

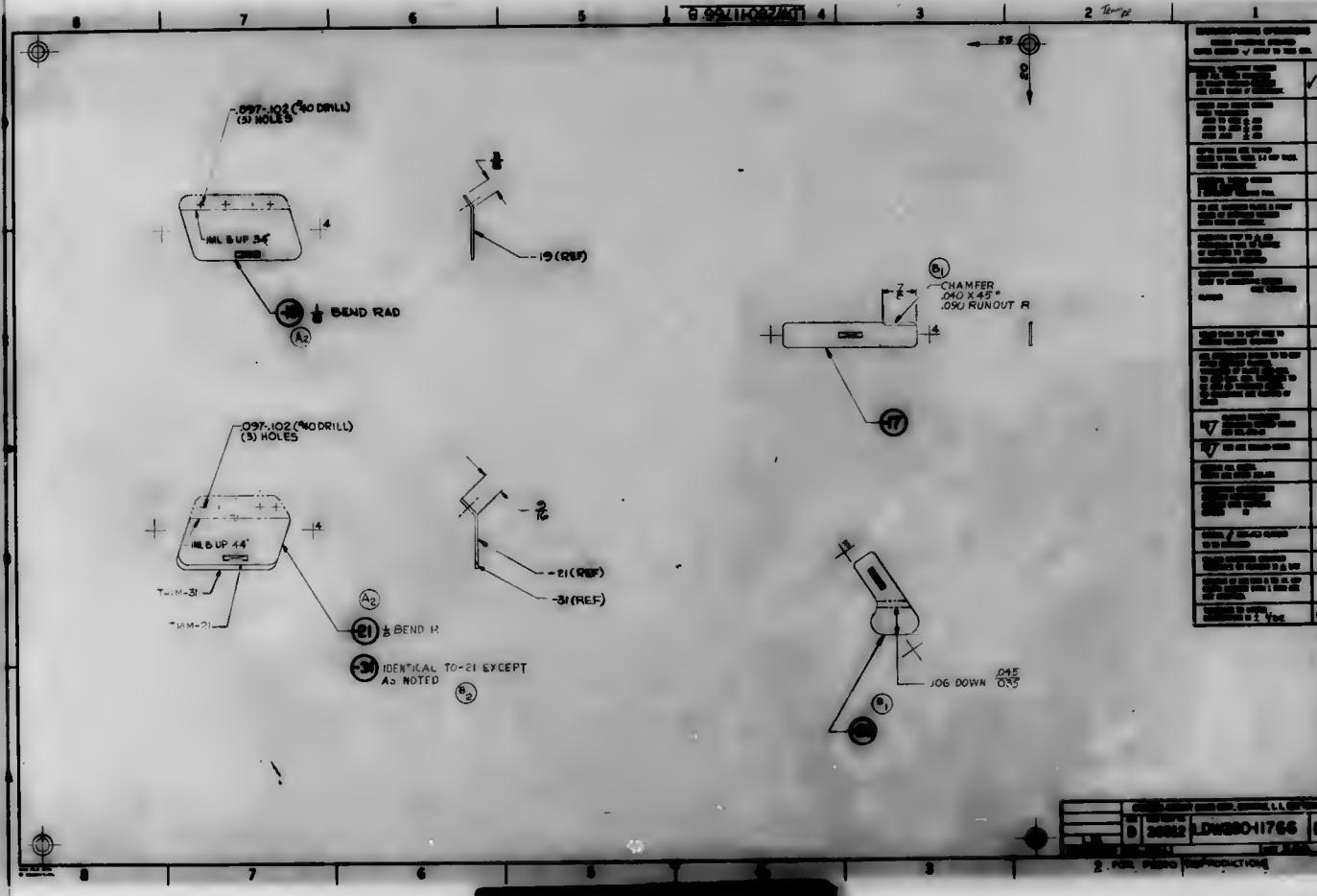
NAS 9-1100

MAY BE REDRAWN ON A PRODUCTION
FORMAT AT A LATER DATE

	GRUMMAN AIRCRAFT ENGRG CORP., BETHPAGE, L.I., NEW YORK		
DATE	CODE INVEST NO.		
LM	J 26512	LDW280-11752	
MODEL OR ENG'G ITEM	SCALE	FULL	LINÉ ITM N. 1
			SHEET 3 OF 3



MAS 0-1100

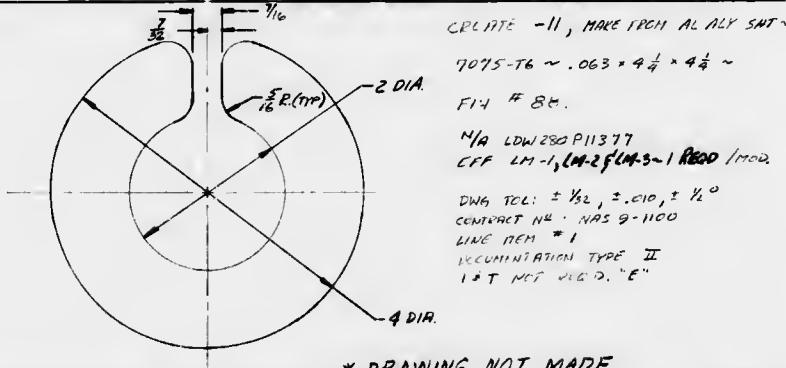


NACS 8-1100



GRUMMAN AIRCRAFT ENGINEERING CORP.
CODE IDENT NO. 26512
ENGINEERING ORDER

LDW280-11785 A1
LMS - 11680



* DRAWING NOT MADE

DETAIL SPEC NO.	C. 1 DRAW Cdg	C. 2 DRAW Cdg	DESCRIPTION OF CO		RECEIVED BY
SEARCH FOR E.O.			E.O. A1 INITIAL DRAWING RELEASE. PARTS		
TO ELIMINATE INTERFERENCE BETWEEN C-BAND ANT & TENDON STOPS.			MADE PER E.O.		
MODEL	PROCUREMENT ACTIVITY NO.	SPECIFICITY	ISSUED CHARGE ITEM	DISPOSITION OF PARTS	APPROVED BY
			% FIVE YEAR PERIOD	NOT REQ'D	DATE
LM1	LM-1 (31)		1	1/16/67	U.T.
LM1	LM-2 (32)		1	1/16/67	V.D.I. SUPPORT
LM1	LM-3 (33)	C PLATE ~ AK ~ HIS ~ THERMAL SHIELD ~ C-BAND ANT	1	1/16/67	MATERIALS LABOR TESTS INSPECTION TESTS TESTS TESTS
1-21-67 ISSUED BY: D.COPPI / P.MOHLEN			SECTION VEN. DES. INT.		LDW280-11785 A1
A 1153			GROUP NO. 385 PL. 5		

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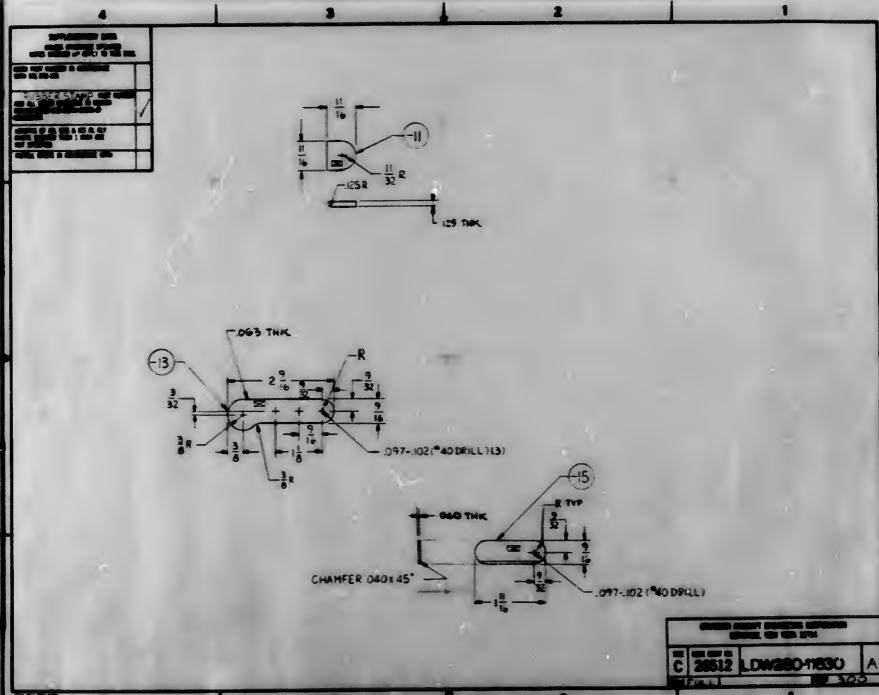
NAS 9-1100

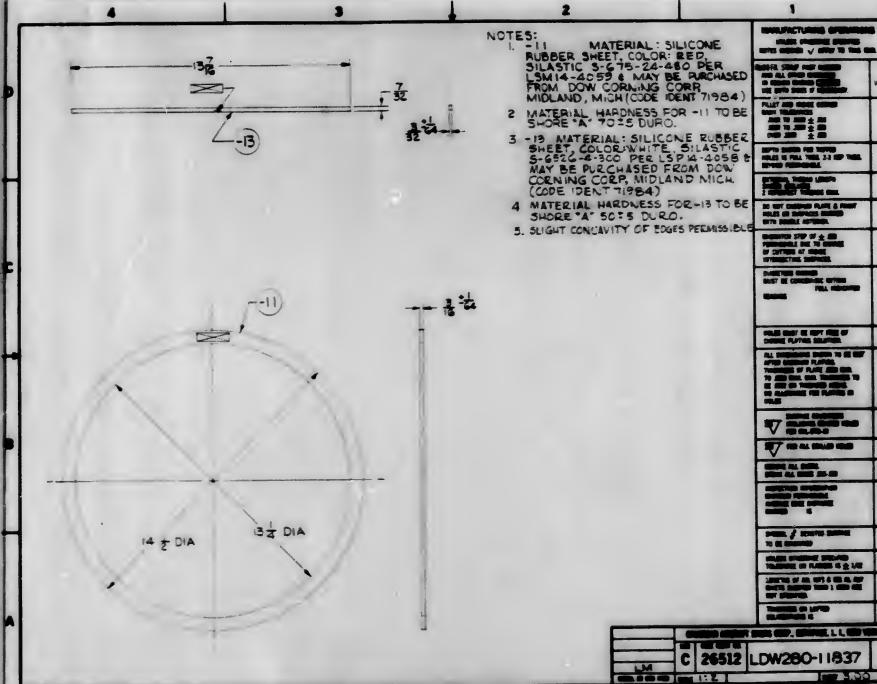
- 10 -

REVISIONS OF ESTIMATES OF ENERGY USE

ITEM NO.	REF	DATE	BY WHU	QAR 1 QAR 2	DESCRIPTION	SPECIFICATION	REVISIONS - FOR INFORMATION OF REVISION SEE SHEET		NUMBER OF UNITS TESTED	TESTED BY	CHANGED ITEM NO.	CHANGED ITEM DATE	CHANGED ITEM APP.
							REV	SERIAL					
4. 100-100, 200-300	/EQ01			LCD-1244	EQ01 INITIAL DWS RELEASE PARTS MADE PER ED.	LM-12-1 LM-21324	N	NOT READY					
2. 100	/EQ02			LCD-1244	-11-13E-15 ADDED LM-31331 THRU LM-15451 & PA-1(47) EFF	LM-31331 PA-1 LM-15451 PA-1(47)	N	READY					
3. 100	/LED250-731			LCD-2104	FOR -11-13E-15 ADDED QUA TEST PCRTS	QUAL TESTS	N	READY					

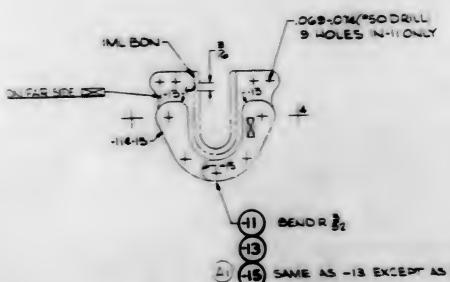
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MAS 9-1100

NO. 25
1. NO TOOLING HOLES PERMITTED
IN PARTS.
2. SULFURIC ACID ANODIZE MIL-A-8625
TYPE II WITH A CLEAR HOT
WATER SEAL



3. E&B PHOTO RETROPTION 1

0-1100

